WTCI-658-P

(73)

A-56580

FILE: WTC 113.00

TO: D. Meyers

DATE: September 24, 1973

FROM: E. J. Boland

SUBJECT: THE WORLD TRADE CENTER - CONTRACT WTC 113.00 - TOWER "B" ELEVATOR SHAFTS #10 & #11 - LOOSE AND FALLING SPRAY-ON FIREPROOFING

REFERENCE: Photos attached, B-1, B-2, B-3, B-4

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Our inspection of the above mentioned shafts indicates that the spray-on fireproofing has been improperly applied in several areas.

The fireproofing has come loose and fallen at floors 35, 40 and 43 in shaft #10 and at floor 31 in shaft #11. Also several small sections have come loose from perimeter box beams in both shafts.

We request that you direct the contractor Mario & DiBono, to re-spray the above mentioned areas as required under their Contract. Please refer to Chapter II, Page 123, Section 13.03 - Product Qualifications, "...the material shall resist the normal abuse resulting from the construction work of subsequent trades, shall not crack, craze, dust or disintegrate and shall adhere to the base surfaces with sufficient strength to insure against any loosing and falling off of applied material." And Page 126, Section 13.07 - Workmanship "4. The sprayed-on fireproofing and sprayed-on insulation, when completed, shall be free from seams, staging breaks, holes, spalls, cracks, flaking and dusting action, and other defects of any kind."

E. J. Boland
Supervising Engineer
The World Trade Center

RV/lp

J.R
cc: B.W. → ACTION
F.C.
FILE

[illegible] & CONST. CO., INC.

SEP 24 1973

Primary Org: PA

DOCUMENT DATA FORM **Your Name: Nick Carino**

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Memorandum to D. Meyers regarding improper application of SFRM in elevator shaft #10 on floors 35, 40, and 43 and floor 31 in shaft #11. (spray-on fireproofing)

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KEYWORDS – HIGHLIGHT ALL THAT APPLY

Level 1

Bankers Trust	Project 5	WTC 3 - Marriot Hotel
Below Grade	Project 6	WTC 4 - South Plaza Bldg.
Concourse	Project 7	WTC 5 - North Plaza Bldg.
Electrical Substation	Project 8	WTC 6 - Customs House
Liberty Plaza	WFC 1 - Oppenhiemer Dow	WTC 7
PATH Station	WFC 2 - Tower B	WTC Complex
Project 1	WFC 3 - American Express	WTC Plaza
Project 2	WFC 4 - Tower D	
Project 3	WTC 1 - North Tower	Add
Project 4	WTC 2 - South Tower	

Level 2

Accident analysis & risk	Fire protection	Misc. Performance Problems	Tenant alterations
Architectural	Fire service	News coverage	Tenant Space
Data request	Landscaping	Police	Add
Emergency management	Management	Security	
Evacuation	Mech./elec.	Structural	

Level 3

1993 explosion	Deck	Hat truss	Shop drawings
A/E fitout	Deflection	Human comfort	Shortening
A-242	Demolition	HVAC	Slab
A-36	Design	Index	Slurry wall
A-497	Detailing	Inspection	Smoke control
Aircraft impact	Doors	Insulation	Smoke test
Air cooled condensers	Drawings	Job number	Spandrel beam
Analysis	Eastern States Steel	Joist	Specifications
Angles	Egress	L-50	Splices
Antenna	Elevator	Lighting	Sprinkler
Artifacts	Emergency communications	Loads	Stability
Asbestos	Equipment	Maintenance	Stairways
Base plate	Erection marks	Marking	Standards
Beams	Escalator	Mesh reinforcement	Steel
Bid Invitation	Expansion joint	Mill inspection	Steel composition
Bow tie	Exterior columns	Model	Stiffness
Bracing	Fabrication	Mullion	Structural review
Bridging truss	Family member	Operations	Survivor
Calculations	Field survey	Paint	Tenant list
Carpet	Fire alarms	Partition layout	Testing
Ceilings	Fireproofing	Partitions	Tie
Certification	Fire spread	Photos	Tolerances
Chillers	Fire testing	Pipes	Transfer Girders
Cladding	Flag Pole	Plumbing	Triad
Collapse	Flammability	Prestressing	Truss
Columns	Floor	Probability, uncertainty	Vestibule
Communication systems	Floor load	Quality control	Vibration
Composite truss	Floor slab	Ramp	Walls
Computer output	Floor system	Reinforcing (strengthening)	Water supply
Computer program	Floor trusses	Renovation	Weather
Concrete	Foundations	Repair	Weight
Connections	Fracture	Research & Development	Weld detail
Construction	Frame	Roof	Weld size
Contract	Frame analysis	Safety	Welding
Core beams	Frequency	Schedule	Wind
Core columns	Fuel	Sculpture	Windows
Cranes	Furniture layout	Security system	Yield strength
Criteria	H Generators	Shear knuckle	
Dampers	Guidelines	Shear test	Add
Debris	Gypsum board	Shear Stud	